

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method comprising:
collecting, at a transceiver of a customer premise, data samples of a communication network measured from a DSL;
the data samples collected including at least one disturber signal and a co-channel corresponding to the at least one disturber signal; and
sending upstream the [a] collection of data samples measured from [[a]] the DSL [[line]].
2. (new) The method of claim 1 further comprising:
correlating the data at the transceiver to develop a line perspective.
3. (new) The method of claim 1 wherein:
the at least one disturber signal is a crosstalk signal.
4. (new) The method of claim 2 further comprising:
the sending includes sending at least a portion of the data from the transceiver to a network access management system.
5. (new) The method of claim 4 further comprising:
correlating the data from the transceiver with data received at the network access management system from at least one other transceiver to develop a network perspective.
6. (new) The method of claim 5 further comprising:
sending information from the network perspective of the network access management system downstream to the transceiver of the customer premise.

7. (new) The method of claim 4 wherein:
the portion of the data from the transceiver is first sent to an access multiplexer and then forwarded from the access multiplexer to the network access management system.
8. (new) The method of claim 2 further comprising:
the sending upstream includes sending the data from the transceiver at the customer premise upstream to an access multiplexer.
9. (new) The method of claim 8 wherein:
receiving the data from the transceiver at the access multiplexer; and
sending at least a portion of the data from the transceiver to a network access management system.
10. The method of claim 9 further comprising:
correlating the data from the transceiver with data received at the network access management system from at least one other transceiver to develop a network perspective.
11. (new) The method of claim 10 further comprising:
sending information from the network perspective of the network access management system downstream to the transceiver of the customer premise.
12. (new) The method of claim 1 further comprising:
correlating the data at the transceiver from a DSL to develop a line perspective that includes a notification of at least one event;
reporting the notification of the event upstream from the transceiver to a network access management system.

13. (new) A method comprising:
collecting a notification of at least one event from a transceiver at a line card;
reporting the notification of the event from the transceiver to a DSLAM control unit; and
sending the notification from the DSLAM control unit to a network management agent.
14. (new) The method of claim **13** further comprising:
correlating the event with other events at the line card prior to reporting the notification to the DSLAM control unit.
15. (new) The method of claim **13** wherein the notification of the event is time stamped by the transceiver.
16. (new) The method of claim **13** wherein the notification of the event is time stamped by the line card.
17. (new) The method of claim **13** further comprising:
correlating the events with other events reported by other line cards at the DSLAM control unit prior to sending the notification to the network management agent.
18. (new) The method of claim **13** further comprising:
prioritizing the events with other events reported by other line cards at the DSLAM control unit prior to sending the notification to the network management agent.
19. (new) The method of claim **13** further comprising:
correlating the events with other events reported by other DSLAM control units at the network management agent.

20. (new) The method of claim **13** further comprising:
prioritizing the events with other events reported by other DSLAM control units at the network management agent.
21. (new) The method of claim **13** further comprising:
sending information collected by the network management agent from the DSLAM or other DSLAMs down to the transceiver.
22. (new) The method of claim **13** further comprising:
sending information collected by the network management agent from the DSLAM control unit or other DSLAM control units down to the DSLAM control unit.
23. (new) The method of claim **13** wherein an event is an observed change in a signal-to-noise ratio on a line.
24. (new) The method of claim **13** wherein an event is a change in a bit error rate.
25. (new) The method of claim **13** wherein an event is a change in any measurement of signal quality.
26. (new) The method of claim **13** wherein an event is a change in a transmitter's signal power on a line.
27. (new) The method of claim **13** wherein an event is a change in a transmitted bit rate speed for a line.

28. (new) A method comprising:

collecting data of a communication network at a transceiver of a customer premise, wherein the data being collected is at least one disturber signal and a co-channel corresponding to the at least one disturber signal;

correlating the data at the transceiver to develop a line perspective;

the sending of the data includes sending the data from the transceiver at the customer premise upstream to an access multiplexer;

receiving the data from the transceiver at the access multiplexer;

sending at least a portion of the data from the transceiver to a network access management system;

correlating the data from the transceiver with data received at the network access management system from at least one other transceiver to develop a network perspective; and

sending information from the network perspective of the network access management system downstream to the transceiver of the customer premise.